Index of Claims

Application/Control No.

10/086,938

Examiner

Clifford H. Knoll

Applicant(s)/Patent under Reexamination

APOSTOL ET AL.

Art Unit

2112

| √ | Rejected |
|----------|----------|
| = | Allowed |

| _ | (Through numeral) Cancelled |
|---|--------------------------------|
| ÷ | Restricted |

| N | Non-Elected |
|---|--------------|
| _ | Interference |

| A | Appeal |
|---|----------|
| 0 | Objected |

| | | | <u> </u> | | | | J | | Ц. | • | | | | | | | | J | L. | 1 | - | | | | J |
|----------|----------|--------|--------------|----------|--|--|----------|--|----------|-----------|----|----------|----------|----------|------------|----------|----------|--|--------------|--------------|--------------|--------------|---|----------|-----------|
| Cla | aim | Γ | | | | Dat | е | | | | 7 | Cla | aim | Π | | | | Dat | e | | | | 7 | C | la |
| Final | Original | 9/7/04 | 6/24/05 | | | | | | | | | Final | Original | | | | | | | | | | | Final | |
| | 1 | 1 | 1 | ╁ | H | - | ╁╌ | + | ╁╌ | ╁╌ | ┨ | | 51 | - | H | 1 | - | ┢╌ | ┼ | 1 | ╁ | ╁ | 1 | | \dagger |
| - | 2 | Ī | Ì | 1- | 1 | ╁ | ╁ | + | 十 | ╁╌ | 1 | | 52 | t | ┢ | | | | +- | H | \vdash | ╁ | 1 | | t |
| ļ | 3 | 1 | 1 | | T | ┪ | 1 | T | T | \dagger | 1 | | 53 | T | T | | \vdash | ┼ | \vdash | t | | f | 1 | | † |
| | 4 | 1 | 1 | | İΤ | Т | T | t | | t | 1 | | 54 | t | t | — | | T | \vdash | | <u> </u> | | 1 | | † |
| | 5 | 1 | 1 | T | | | | T | | | 1 | | 55 | İΤ | T | | | | T | | | | 1 | | Ť |
| | 6 | 1 | 1 | | | | | | | |] | | 56 | | | | | | | | | | 1 | | Ť |
| | 7 | 1 | 1 | | | | | | | |] | | 57 | | | | | | | | | |] | | Ī |
| | 8 | V | 1 | <u> </u> | | L | | | 1_ | 1_ |] | | 58 | L | L | L_ | <u> </u> | 匚 | | | | L |] | | 1 |
| | 9 | 1 | 1 | <u> </u> | L | | <u> </u> | ↓_ | <u> </u> | <u> </u> | 1 | | 59 | <u>L</u> | <u> </u> | | <u> </u> | | | <u> </u> | | <u> </u> | | | 1 |
| | 10 | 1 | 1 | ↓_ | <u> </u> | <u> </u> | <u> </u> | ╙ | <u> </u> | <u> </u> | 4 | <u></u> | 60 | | <u> </u> | | _ | <u> </u> | <u> </u> | <u> </u> | | | 1 | <u></u> | 1 |
| | 11 | 1 | 1 | | _ | ļ | <u> </u> | ↓_ | ┞ | ↓_ | 4 | | 61 | <u> </u> | <u> </u> | <u> </u> | ļ_ | <u> </u> | _ | _ | | | 4 | L | 1 |
| | 12 | 1 | 1 | ┡ | <u> </u> | _ | - | ▙ | ▙ | ⊢ | ┨. | | 62 | ļ | <u> </u> | <u> </u> | _ | <u> </u> | 1 | <u> </u> | _ | _ | 4 | <u> </u> | 4 |
| - | 13 | 1 | 1 | ├ | | ├ | ├— | ╁ | ╀ | ╀ | - | | 63 | - | | ┡ | <u> </u> | ├ | ├- | ⊢ | ⊢ | ⊢ | 4 | | + |
| - | 14 | 1 | 1 | - | <u> </u> | ⊢ | ⊢ | ┢ | ╀ | ╄ | - | | 64 65 | <u> </u> | <u> </u> | ┝ | _ | ┢ | ŀ | - | ├— | - | - | - | + |
| - | 16 | 1 | 1 | ├ | ┢ | \vdash | \vdash | | ╁ | ╁ | 1 | | 66 | - | | ┝ | | ┝ | ┝ | ┝ | ⊢ | ⊢ | - | - | + |
| - | 17 | 1 | 1 | ├ | ├ | \vdash | \vdash | \vdash | ╁ | ╫╌ | ┨ | <u> </u> | 67 | - | ┢ | ⊢ | ┢ | ├ | ├ | ├ | ┢ | ╁ | - | | + |
| | 18 | 1 | 1 | ╁ | ┢ | ┢ | H | ┢ | ╁╌ | ╁ | 1 | | 68 | ⊢ | \vdash | \vdash | ├ | ⊢ | ├ | ┢ | ⊢ | ╌ | ┨ | | + |
| - | 19 | 1 | 1 | ┢ | | \vdash | ┢┈ | ╁ | ╁ | ╁ | ┨ | | 69 | ┢ | ┢╌ | | ┢ | ├- | | ╁ | ⊢ | ╁ | ┨ | | $^{+}$ |
| | 20 | i | Ì | \vdash | \vdash | | - | + | \vdash | \vdash | 1 | | 70 | ┢ | | | - | | | \vdash | ┢ | ⊢ | ┨ | | + |
| | 21 | V | Ì | \vdash | 一 | ╁ | \vdash | \vdash | \vdash | ╁╴ | 1 | | 71 | \vdash | | \vdash | | - | \vdash | ┢ | ┢ | H | ┪ | <u> </u> | + |
| | 22 | 1 | 1 | ╁ | | ✝ | H | 1 | t | ✝ | 1 | | 72 | \vdash | | | | | \vdash | | \vdash | H | 1 | - | t |
| | 23 | 1 | 1 | T | Т | | | | T | T | 1 | | 73 | T | | ┢ | | | l | H | | | 1 | | t |
| | 24 | 1 | 1 | | | T | | 1 | | Т | 1 | | 74 | | | | | | t | T | _ | | 1 | | t |
| | 25 | 1 | 1 | | | | | | | | 1 | | 75 | | | | | | | | | | 1 | | t |
| | 26 | 7 | ٧ | | | | | | | Π |] | | 76 | | | | | | | | | \top | 1 | | T |
| | 27 | 7 | 7 | | | | Γ | | | | | | 77 | | | | | | | П | | T | 1 | | T |
| | 28 | 1 | 1 | | | L | | | | Ш |] | | 78 | | | | | | | | | | | | Τ |
| | 29 | 7 | 1 | | | | | L | | L | | | 79 | | | , | | | | | | | | | Ι |
| L | 30 | 1 | 1 | | L | | <u> </u> | <u> </u> | L | <u> </u> | | | 80 | | | | | | | | | | | | I |
| | 31 | 7 | 1 | | | | _ | ┡ | <u> </u> | <u> </u> | | | 81 | | | | | | | _ | | L. | | | ļ |
| | 32 | 1 | V | | | _ | | ┞ | ├- | | | | 82 | <u> </u> | lacksquare | | | <u> </u> | | | | _ | 1 | | ╀ |
| | 33 | < | 1 | ┝ | _ | <u> </u> | ┞ | ₽ | ├- | ├ | - | | 83 | \vdash | _ | | | ┡ | | _ | <u> </u> | _ | 4 | | Ļ |
| - | 34 35 | 1 | 7 | \vdash | - | \vdash | ⊢ | ├ | ⊢ | ├ | - | | 84 | _ | | | | ļ | | | <u> </u> | ⊢ | - | | 1 |
| - | 36 | 0 | 0 | ┢ | ⊢ | ┢ | ┝ | ⊢ | ┢ | ╁ | 1 | | 85 86 | _ | | | | | | - | ┝ | ┝ | ┨ | | ╀ |
| - | 37 | 0 | 0 | ┝ | _ | ┝ | ⊢ | ├ | ┢ | ╁ | 1 | \vdash | 87 | \vdash | - | | | - | - | - | _ | - | ł | <u> </u> | ╀ |
| | 38 | 0 | ~ | \vdash | \vdash | \vdash | - | ┢ | ⊢ | \vdash | ١. | | 88 | _ | | | _ | \vdash | | | ├ | - | 1 | <u> </u> | ╁ |
| | 39 | Ť | Ť | | \vdash | ┢ | - | \vdash | | \vdash | 1 | | 89 | | \vdash | _ | | - | | - | - | - | ł | - | ╁ |
| | 40 | | | | - | | | | | <u> </u> | 1 | | 90 | | | | _ | | - | - | | - | 1 | - | t |
| | 41 | | _ | _ | | | | | Г | 1 | 1 | | 91 | | H | | | _ | | | | \vdash | 1 | | t |
| | 42 | | | | | | | <u> </u> | | | 1 | | 92 | | | | _ | _ | | | | | 1 | | t |
| | 43 | | | | | | | | | | | | 93 | | | | | | | | | | 1 | | T |
| | 44 | | | | | | | | | |] | | 94 | | | | | | | | | | 1 | | T |
| | 45 | | | | | | | | | | | | 95 | | | | | | | | | Г | 1 | | T |
| | 46 | | | | | | | | | |] | | 96 | | | | | | | | | |] | | Γ |
| | 47 | | | | | | | | | | | | 97 | | | | | | | | | | | | Ī |
| \sqcup | 48 | | | | | _ | | _ | | L. | | | 98 | | | | | | | | | | | | |
| \sqcup | 49 | | | Ш | | | Ш | | <u> </u> | Ĺ | | | 99 | | | | | | | | | | | | |
| 1 | 50 | - 1 | | | | | l | i - | | L. | 1 | T | 100 | | | | | | | | | I | ŀ | | Т |

| Cla | Claim Date | | | | Claim | | | Date | | | | | | |] ; | Cla | aim | Date | | | | | | | | | | | | | | |
|--|------------|--------|----------|----------|----------|----------|---------------|----------|----------|----------|--------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|---------------|------------|-----------------|----------|----------|-----------------|---------------|-----------------|----------|---------------|----------|----------|----------|
| | 16 | | 5 | | | | | | | | | le le | | | | | | П | T | | 1 | | | | | | | | | | | |
| Final | Original | 9/7/04 | 6/24/05 | | | | | | | | Final | Original | | | | | ı | | | | | Final | Original | | | | | | | | | |
| iĒ | Ę | 97 | 77/5 | | - 1 | | | | 1 | | <u>i</u> | <u>E</u> | | | | | | | | | | ᇤ | rig | | | | | | | | | |
| | 0 | • | ۱۳۱ | | - 1 | | | | | | | 0 | | | | | | | | | | | 0 | | | | | | | | | |
| | 1 | 1 | 7 | コ | 寸 | | | Ħ | | \neg | | 51 | П | | T | | | 寸 | 寸 | 1 | 1 | | 101 | | П | \vdash | | | Г | | \neg | _ |
| ļ — | 2 | 1 | 7 | | 寸 | | | | 十 | 7 | | 52 | Ħ | | 寸 | \neg | \neg | 寸 | 寸 | _ | 1 | | 102 | | | $\overline{}$ | ┢ | | | | \dashv | \neg |
| | 3 | 1 | 1 | | 一 | | | H | _ | 7 | | 53 | П | | 一 | | | \dashv | 十 | | 1 | _ | 103 | _ | | | | | | | \dashv | |
| | 4 | 1 | 1 | _ | \neg | | | | | 1 | | 54 | | | | \dashv | 一 | \dashv | \dashv | \neg | 1 | <u> </u> | 104 | | | | - | \vdash | ┢┈╴ | \dashv | ᅱ | _ |
| | 5 | 1 | 7 | 寸 | | 一 | | H | _ | ┥. | | 55 | H | | \dashv | \dashv | _ | 十 | + | | 1 | | 105 | | | _ | _ | _ | | \dashv | \dashv | \dashv |
| | 6 | 1 | 1 | | T | 一 | | | + | ┥. | | 56 | Н | \dashv | \dashv | \dashv | 寸 | _ | \dashv | _ | 1 : | | 106 | | \neg | | _ | | | \dashv | - | ᅥ |
| | 7 | 7 | 1 | 1 | | _ | | | - | ┥. | - | 57 | Н | \dashv | \dashv | 寸 | \dashv | + | _ | | 1 | \vdash | 107 | H | | | | | | | | ᅱ |
| | 8 | 7 | 7 | 寸 | 一 | _ | | | \dashv | ┪ | | 58 | Н | - | 一 | - | | 7 | ┪ | + | 1 | \vdash | 108 | H | | | - | - | - | \dashv | \dashv | \dashv |
| | 9 | 1 | Ì | \dashv | 7 | _ | | \dashv | \dashv | ⊣ | | 59 | Н | | | ᅥ | \dashv | ╅ | \dashv | + | - | \vdash | 109 | Н | | | | | _ | \dashv | \dashv | 一 |
| | 10 | 7 | V | - | | _ | | \dashv | + | \dashv | - | 60 | Н | | | \dashv | \dashv | \dashv | \dashv | + | 1 | \vdash | 110 | H | | | - | | _ | \dashv | \dashv | ᅱ |
| | 11 | 1 | V | \dashv | \dashv | - | | \dashv | - | \dashv | - | 61 | H | - | \dashv | - | - | - | -+ | + | ┨ | - | 111 | \vdash | \vdash | | | | - | \dashv | | \dashv |
| | 12 | 7 | i | \dashv | \dashv | - | _ | - | | | - | 62 | Н | \vdash | \dashv | -+ | | \dashv | + | + | 1 | | 112 | Н | \vdash | | Н | _ | - | - | \dashv | \dashv |
| - | 13 | 7 | Ť | - | | \dashv | \dashv | \dashv | + | ┨. | \vdash | 63 | | - | | \dashv | | + | + | + | 1 | \vdash | 113 | Н | \vdash | - | $\vdash \vdash$ | \vdash | \vdash | \dashv | \dashv | \dashv |
| \vdash | 14 | 7 | 7 | | | | \dashv | | + | \dashv | <u> </u> | 64 | Н | \vdash | \dashv | \dashv | | + | + | + | 1 | | 114 | Н | \vdash | - | - | Н | \vdash | \dashv | + | ᅴ |
| \vdash | 15 | 7 | 7 | | \dashv | \dashv | \vdash | \vdash | + | \dashv | - | 65 | Н | \dashv | \dashv | \dashv | \dashv | + | + | - | | \vdash | 115 | \vdash | | | Н | Н | Н | | _ | |
| \vdash | 16 | 1 | 1 | \dashv | \dashv | \dashv | \vdash | | \dashv | \dashv | - | 66 | H | \vdash | \dashv | - | - | \dashv | + | + | | | | Н | $\vdash \vdash$ | _ | | \vdash | \vdash | - | \dashv | |
| - | 17 | 1 | 7 | | \dashv | \dashv | \vdash | \vdash | + | \dashv | | 67 | \vdash | \dashv | \dashv | \dashv | | - | - | - | | | 116 | Н | $\vdash \vdash$ | | <u> </u> | \vdash | Ι | _ | \dashv | \dashv |
| | 18 | 7 | 7 | \dashv | \dashv | \dashv | \dashv | | | ⊣ | | | Н | \dashv | \dashv | -+ | - | | + | - | - | | 117 | Н | \vdash | | Ш | | | \dashv | - | _ |
| | | 7 | 1 | \dashv | - | \dashv | | \vdash | - | 4 | <u> </u> | 68 | Н | \dashv | | \dashv | | + | \dashv | | | <u> </u> | 118 | H | | | | | | - | - | _ |
| \vdash | 19 | | | \dashv | _ | - | | \dashv | \dashv | 4 | | 69 | | \dashv | 4 | _ | 4 | | - | | . ! | | 119 | Ш | Н | | | _ | Щ | 4 | 4 | |
| \vdash | 20 | 1 | 1 | - | | \dashv | | \dashv | - | - | | 70 | Н | \dashv | \dashv | \dashv | | 4 | - | _ | 1 | | 120 | | \perp | | Щ | | | \dashv | _ | _ |
| \vdash | 21 | 1 | 1 | \dashv | - | - | | _ | - | _ | | 71 | Н | \dashv | - | - | | _ | | | 1 1 | | 121 | Ш | | | | | | _ | _ | _ |
| \vdash | 22 | - | 1 | \dashv | \dashv | \dashv | | \dashv | | - | | 72 | Н | -1 | | | - | + | \dashv | | - 1 | | 122 | | | | Ш | | Щ | _ | _ | 4 |
| \vdash | 23 | 1 | 1 | \dashv | _ | _ | _ | - | - | | | 73 | \vdash | \dashv | | _ | _ | + | - | | 1 | | 123 | _ | \Box | | | | _ | _ | _ | _ |
| | 24 | 7 | 1 | \dashv | _ | _ | | _ | - | 4 | | 74 | _ | _ | | _ | - | + | - | _ _ | | | 124 | - | | | Ш | Щ | | _ | _ | |
| \vdash | 25 | 7 | 1 | - | \dashv | \dashv | \dashv | | - | 4 | <u> </u> | 75 | | | - | \dashv | \dashv | + | + | | | $\vdash \vdash$ | 125 | Н | | | | | | _ | _ | _ |
| | 26 | | 1 | \dashv | \dashv | - | \dashv | | - | 4 | - | 76 | | | _ | \dashv | - | + | + | + | | | 126 | | · | | | _ | | \dashv | | |
| \vdash | 27 | 1 | 7 | - | \dashv | \dashv | \dashv | \dashv | | \dashv | <u> </u> | 77 | \dashv | | - | \dashv | | + | + | | | <u> </u> | 127 | | _ | | | | | | _ | |
| | 28 | 7 | | | ᅱ | | | \dashv | + | - | — | 78 | \Box | _ | + | \dashv | | 4 | + | - | . I | \vdash | 128 | | | | Щ | | - | _ | _ | _ |
| \vdash | 29 | 7 | 1 | - | - | _ | - | | - | - | | 79 | \dashv | | | \dashv | \dashv | - | 4 | _ | 4. | $\vdash \vdash$ | 129 | | | | \square | - | | _ | _ | _ |
| \vdash | 30 | | 1 | | | _ | | \dashv | | - | | 80 | | - | \dashv | \dashv | \dashv | _ | _ | _ | ↓ ∤ | — | 130 | | \dashv | | | | | \dashv | _ | _ |
| \vdash | 31 | 1 | 1 | | - | - | \dashv | \dashv | | 4 | <u></u> | 81 | | \dashv | | - | | _ | 4 | | | \vdash | 131 | _ | _ | | | | | _ | _ | 4 |
| \vdash | 32 | 1 | 1 | - | - | _ | - | \dashv | | | ļ | 82 | | \dashv | - | 4 | _ | _ | _ | | 1 1 | | 132 | 4 | | | | \dashv | | | _ | _ |
| \vdash | 33 | 1 | 1 | - | | 4 | _ | _ | | 4 | <u></u> | 83 | \Box | \dashv | 4 | | _ | _ | \dashv | | 1 1 | . | 133 | \Box | _ | | \Box | | | _ | _ | _ |
| \vdash | 34 | 1 | ٧, | - | - | _ | | 4 | | 4 | \vdash | 84 | ⊢ | | _ | | _ | _ | _ | \perp | | \sqcup | 134 | Щ | \dashv | | | | | | _ | _ |
| \vdash | 35 | 1 | 1 | \dashv | \dashv | _ | _ | 4 | _ | - | \vdash | 85 | \sqcup | _ | _ | | _ | _ | - | \bot | | igsquare | 135 | Щ | _ | | | | | _ | _ | _ |
| \vdash | 36 | 0 | | _ | _ | _ | | 4 | _ | 4 | \vdash | 86 | \square | _ | _ | 4 | 4 | - | _ | | [] | igsquare | 136 | | | | | | | | | _ |
| | 37 | | 0 | \dashv | _ | _ | | \dashv | \perp | 4 | | 87 | Щ | ļ | _ | 4 | _ | \perp | 4 | | | $\sqcup \sqcup$ | 137 | \Box | | | \Box | | | | | _ |
| \vdash | 38 | 0 | 이 | _ | _ | _ | _ | \dashv | \perp | 4 | | 88 | \Box | _ | 4 | | _ | \perp | \perp | | | $\sqcup \sqcup$ | 138 | Ш | | | | | [| | [| |
| \vdash | 39 | _ | \dashv | 4 | 4 | | | _ | 4. | 4 | | 89 | Ц | _ | | _ | 4 | \perp | 4 | | | | 139 | | | | | | | | | _ |
| \vdash | 40 | | 4 | | \dashv | \dashv | _ | 4 | _ | 4 | | 90 | | _ | _ | _ | 4 | \perp | \perp | \perp | | | 140 | | _ | | | | | | \perp | _ |
| $\vdash \vdash \vdash$ | 41 | _ | - | \dashv | _ | _ | _ | _ | _ | 4 | \vdash | 91 | | _ | _ | _ | _ | \perp | \perp | \perp | | | 141 | | | | Ш | | ightharpoonup | _ | | ╝. |
| \vdash | 42 | | \dashv | \dashv | - | | _ | 4 | | - | | 92 | \sqcup | _ | _ | \dashv | 4 | _ | _ | 4 | | \square | 142 | Ц | | | Щ | | \Box | _ | | _ |
| | 43 | | \dashv | \dashv | -4 | | | 4 | | _ | $\vdash \vdash$ | 93 | | _ | _ | _ | _ | \perp | 4 | | | $\sqcup \sqcup$ | 143 | _ | | _ | | | _ | \perp | | _ |
| | 44 | | \dashv | \dashv | | | \dashv | \dashv | | \dashv | $\vdash \vdash$ | 94 | _ | _ | | _ | _ | \perp | \bot | | | | 144 | _ | _ | _ | ļ | | | \perp | _ | |
| \vdash | 45 | | - | - | _ | 4 | 4 | 4 | _ | 4 | | 95 | _ | _ | _ | _ | 4 | 4 | _ | | | \sqcup | 145 | \sqcup | \dashv | \Box | | | | \perp | | |
| \vdash | 46 | _ | | \dashv | _ | \dashv | \rightarrow | - | - | 4 | \vdash | 96 | _ | _ | \dashv | 4 | 4 | _ | _ | | | $oxed{oxed}$ | 146 | _ | _ | _ | | _ | | 4 | \perp | |
| | 47 | . | \dashv | _ | 4 | | _ | _ | + | 4 | $\vdash \bot \downarrow$ | 97 | _ | _ | 4 | _ | 4 | | _ | 4 | | | 147 | | | _ | _ | | \dashv | \perp | | \Box |
| $\vdash \vdash \vdash$ | 48 | | \dashv | - | | | _ | \dashv | + | \dashv | $\vdash \vdash$ | 98 | _ | _ | _ | \dashv | \dashv | \perp | 4 | 4- | | | 148 | _ | _ | | | ļ | _ | _ | | |
| $\vdash \vdash$ | 49 | - | -+ | + | + | \dashv | - | \dashv | _ | 4 | $\vdash \vdash$ | 99 | _ | \dashv | _ | _ | \perp | \perp | 1 | | | <u> </u> | 149 | _ | _ļ | _ | _ | _ | | \perp | _ | \Box |
| Ь | 50 | | | | | | [| | | ┙ | ш | 100 | | | | 1 | L | | _L | Щ_ | [| l | 150 | | | | | | | \bot | \perp | \Box |